

RECEIVED  
CENTRAL FAX CENTER

MAR 20 2007

## Patent Technology Centers

### Facsimile Transmission

To:	Name:	USPTO
	Company:	
	Fax Number:	571-273-8300
	Voice Phone:	
From:	Name:	Deborah Crouch, Ph.D.
	Official Fax Number:	(571) 273-8300
	Official After Final Fax Number:	(571) 273-8300
	Voice Phone:	(571) 272-0727

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

#### Fax Notes:

---

---

Date and time of transmission: Tuesday, March 20, 2007 2:52:30 PM  
Number of pages including this cover sheet: 12

---

**BEST AVAILABLE COPY**



FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

901 New York Avenue, NW ■ Washington, DC 20001-4413 ■ 202.408.4000 ■ Fax 202.408.4400  
www.finnegan.com

## FACSIMILE TRANSMITTAL

RECEIVED  
CENTRAL FAX CENTER

MAR 20 2007

### TO

Name: Examiner Crouch  
Company: US Patent & Trademark Office  
Fax Number: 571-273-0727  
Phone Number:  
Date: March 20, 2007  
Subject: APLN 09/394,902

### FROM

Name: Salvatore J. Arrigo  
Phone Number: 202-408-4160  
Fax Number Verified by: K. Smith/MD1109  
Total Pages (including cover): 11  
Our File No.: 09960.0007-06

Confirmation Copy to Follow: ☐ Yes ☒ No

Examiner Crouch:

Per our conversation of earlier today, we attach copies of a Transmittal Letter, Revocation of Power of Attorney and Grant of New Power of Attorney, and date-stamped receipt card, showing that these papers were filed in the USPTO on November 30, 2006, in U.S. Application No. 09/394,902.

Salvatore J. Arrigo  
Registration No. 46,063

If there is a problem with this transmission, notify the sender at the number above.

This facsimile is intended only for the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If you have received this facsimile in error, please notify the sender immediately by telephone (collect), and return the original message by first-class mail to the above address.

RECEIVED  
CENTRAL FAX CENTER

MAR 20 2007

KJM SSA

38

**PLEASE STAMP TO ACKNOWLEDGE RECEIPT OF THE FOLLOWING:**

In Re Application of: STICE et al.

Confirmation No. 5113

Application No.: 09/394,902

Group Art Unit: 1632

Filed: September 13, 1999

Examiner: D. Crouch

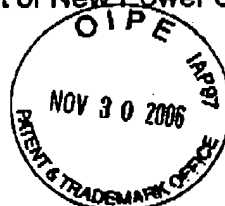
For: CLONING PIGS USING DONOR CELLS OR NUCLEI FROM DIFFERENTIATED  
CELLS (SOMATIC OR GERM CELLS) AND PRODUCTION OF PLURIPOTENT  
PORCINE CELLS BY NUCLEAR TRANSFER

1. Transmittal Letter (1 page)
2. Revocation of Power of Attorney and Grant of New Power of Attorney (2 pages) and  
Associated Documents

Dated: November 30, 2006

Docket No.: 9960.0007-06

Atty: S. Arrigo



(Due Date: N/A)

**PLEASE RETURN TO K. SMITH/MD1109**KJF  
npo  
12/01/06

RECEIVED  
CENTRAL FAX CENTER

MAR 20 2007

PATENT

Customer No. 22,852

Attorney Docket No. 9960.0007-06

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

STICE et al.

Application No.: 09/394,092

Filed: September 13, 1999

) Group Art Unit: 1632

) Examiner: D. Crouch

) Confirmation No.: 5113

For: CLONING PIGS USING DONOR CELLS OR NUCLEI FROM  
DIFFERENTIATED CELLS (SOMATIC OR GERM CELLS) AND  
PRODUCTION OF PLURIPOTENT PORCINE CELLS BY  
NUCLEAR TRANSFERCommissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

TRANSMITTAL LETTER

Applicants submit a Revocation of Power of Attorney and Grant of New Power of  
Attorney and associated papers in the above-identified application.

Kindly associate these papers with this application.

Respectfully Submitted,

Dated: November 30, 2006By: 

Salvatore J. Arrigo

Reg. No. 46,063

Telephone: 202-408-4160

Facsimile: 202-408-4400

E-mail: arrigos@finnegan.com

RECEIVED  
CENTRAL FAX CENTERMAR 20 2007  
PATENT

Customer No. 22,852

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Stice et al.

U.S. Application No. 09/394,902

Filed: September 13, 1999

)  
)  
) Group Art Unit: 1632  
)  
) Examiner: Deborah Crouch  
)  
)  
)

For: Cloning Pigs Using Donor Cells or Nuclei from Differentiated Cells (Somatic or Germ Cells) and Production of Pluripotent Porcine Cells by Nuclear Transfer

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**REVOCATION OF POWER OF ATTORNEY  
AND GRANT OF NEW POWER OF ATTORNEY**

The undersigned, a representative authorized to sign on behalf of the assignee owning all of the interest in the application identified above, hereby revokes all previous powers of attorney or authorization of agent granted in the above-identified application before the date of execution hereof.

The undersigned verifies that University of Massachusetts, as represented by its Amherst Campus, is the assignee of the entire right, title, and interest in the application identified above by virtue of assignments recorded at Reel 010732, Frame 0651 (copies attached). The undersigned certifies that the evidentiary documents have been reviewed and to the best of the undersigned's knowledge and belief, title is in the assignee University of Massachusetts, as represented by its Amherst Campus.

The undersigned hereby grants its power of attorney to the patent practitioners associated with **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Customer Number 22,852**, to prosecute the above-identified application and to transact all business in the Patent and Trademark Office connected therewith, and to receive the Letters Patent.

Please send all future correspondence concerning this application to Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., Customer No. 22,852.

Dated: 11-21-06

By: N. DeCristofaro  
Name: Nicholas DeCristofaro

Title: Director, Commercial Ventures &  
Intellectual Property

University of Massachusetts,  
as represented by its Amherst Campus



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JUNE 27, 2000

PTAS

BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
ROBIN L. TESKIN  
P.O. BOX 1404  
ALEXANDRIA, VA 22313-1404



\*101340055A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/06/2000

REEL/FRAME: 010732/0651  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
CIBELLI, JOSE

DOC DATE: 09/20/1999

ASSIGNOR:  
ROBL, JAMES M.

DOC DATE: 10/05/1999

ASSIGNEE:  
UNIVERSITY OF MASSACHUSETTS, A  
PUBLIC INSTITUTION OF HIGHER  
EDUCATION OF THE COMMONWEALTH OF  
MASSACHUSETTS, AS REPRESENTED BY  
ITS AMHERST CAMPUS  
OFFICE OF VICE CHANCELLOR FOR  
RESEARCH AT AMHERST  
AMHERST, MASSACHUSETTS 01002

000270-026  
Advanced Cell Technology  
KLT

BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
RECEIVED WF.

JUL 03 2000

DOCKETED 7:300

SERIAL NUMBER: 09394902  
PATENT NUMBER:FILING DATE: 09/13/1999  
ISSUE DATE:

010732/0651 PAGE 2

MARY BENTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



04/06/00  
FORM PTO-1595  
(Rev. 6/93)

O I P F E  
APR 0 6 2000  
PATENT & TRADEMARK OFFICE  
RE

05-01-2000

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

101340055

Attorney's Docket No. 000270-026

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Jose CIBELLI and James M. ROBL</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name Other: _____</p> <p>Execution Date: 9/20/99 &amp; 10/5/99, respectively</p>	<p>2. Name and address of receiving party(ies): Name: UNIVERSITY OF MASSACHUSETTS, A PUBLIC INSTITUTION OF HIGHER EDUCATION OF THE COMMONWEALTH OF MASSACHUSETTS, AS REPRESENTED BY ITS AMHERST CAMPUS</p> <p>Address: Office of Vice Chancellor for Research at Amherst. Amherst, Massachusetts 01002</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____</p> <p>A. Patent Application No. (s) 09/394,902</p> <p>B. Patent No. (s)</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>5. Name and address of party to whom correspondence concerning this application should be mailed: Name: Robin L. Teskin Address: BURNS, DOANE, SWECKER &amp; MATHIS, L.L.P. P.O. Box 1404 Alexandria, Virginia 22313-1404</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR § 3.41): \$ 40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account, if necessary</p> <p>8. Deposit account number: 024800</p>

04/26/2000 JSHABAZZ 00000144 09394902

01 FR:581 40.00

DO NOT USE THIS SPACE

9. Statement and signature.  
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robin L. Teskin  
Name of Person Signing

Signature

April 6, 2000  
Date

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

000270-026

Attorney's Docket No.

## ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by STEVEN L. STICE; JOSE CIBELLI; JAMES M. ROBL; AND PAUL GOLUEKE, residing at 468 AMHERST ROAD, BELCHERTOWN, MA 01007; 166 VILLAGE PARK, AMHERST, MA 01002; 196 OLD ENFIELD, BELCHERTOWN, MA 01007; AND 8 DIANE DRIVE #3, BELCHERTOWN, MA 01007 (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in CLONING PIGS USING DONOR CELLS OR NUCLEI FROM DIFFERENTIATED CELLS (SOMATIC OR GERM CELLS) AND PRODUCTION OF PLURIPOTENT PORCINE CELLS BY NUCLEAR TRANSFER,  
☐ which is a provisional application to be filed herewith; ☐ which is a non-provisional application having an oath or declaration executed on even date herewith prior to filing of application;  
☒ bearing Application No. 09/, and filed on SEPTEMBER 13, 1999; and

WHEREAS, UNIVERSITY OF MASSACHUSETTS, A PUBLIC INSTITUTION OF HIGHER EDUCATION OF THE COMMONWEALTH OF MASSACHUSETTS, AS REPRESENTED BY ITS AMHERST CAMPUS, and having its principal place of business at OFFICE OF VICE CHANCELLOR FOR RESEARCH AT AMHERST, AMHERST, MASSACHUSETTS 01002 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said application, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the

Application No. 09/  
Attorney's Docket No. 000270-026

Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date \_\_\_\_\_ Signature of Assignor \_\_\_\_\_

Steven L. STICE

Date 9/20/99 Signature of Assignor \_\_\_\_\_

Jose CIBELLI

Date \_\_\_\_\_ Signature of Assignor \_\_\_\_\_

James M. ROBL

Date \_\_\_\_\_ Signature of Assignor \_\_\_\_\_

Paul GOLUEKE

000270-026

Attorney's Docket No.

## ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by STEVEN L. STICE; JOSE CIBELLI; JAMES M. ROBL; AND PAUL GOLUEKE, residing at 468 AMHERST ROAD, BELCHERTOWN, MA 01007; 166 VILLAGE PARK, AMHERST, MA 01002; 196 OLD ENFIELD, BELCHERTOWN, MA 01007; AND 8 DIANE DRIVE #3, BELCHERTOWN, MA 01007 (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in CLONING PIGS USING DONOR CELLS OR NUCLEI FROM DIFFERENTIATED CELLS (SOMATIC OR GERM CELLS) AND PRODUCTION OF PLURIPOTENT PORCINE CELLS BY NUCLEAR TRANSFER, ☐ which is a provisional application to be filed herewith; ☐ which is a non-provisional application having an oath or declaration executed on even date herewith prior to filing of application; ☒ bearing Application No. 09/, and filed on SEPTEMBER 13, 1999; and

WHEREAS, UNIVERSITY OF MASSACHUSETTS, A PUBLIC INSTITUTION OF HIGHER EDUCATION OF THE COMMONWEALTH OF MASSACHUSETTS, AS REPRESENTED BY ITS AMHERST CAMPUS, and having its principal place of business at OFFICE OF VICE CHANCELLOR FOR RESEARCH AT AMHERST, AMHERST, MASSACHUSETTS 01002 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said application, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☒ **OTHER:** Black dots

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**